

August 21, 2018

Mr. Devlin Piplic
Director of Facilities
Monroe School District
200 East Fremont
Monroe, WA 98272

RE: 2018 Annual PCB Wipe Sampling
Sky Valley Educational Center
351 Short Colombia Street
Monroe, Washington

Dear Mr. Piplic:

PBS Engineering and Environmental, Inc. (PBS) performed Polychlorinated Biphenyl (PCB) surface testing for the annual monitoring program at the Sky Valley Educational Center (SVEC) located at 351 Short Columbia Street, Monroe, Washington. The following report discusses background information, methodology, findings and conclusions.

BACKGROUND INFORMATION

PCB-containing caulking and contaminated light fixture abatement activities were performed at the Sky Valley Educational Center (SVEC) in the Administration, Annex, Gymnasium, Classroom Pod/Library, and the Technology buildings during summer 2016.

PBS was requested to conduct annual surface PCB sampling in accordance with the SVEC, March 27, 2017 Quality Assurance Project Plan (QAPP) to evaluate the effectiveness of the abatement process.

METHODOLOGY

The following is a description of the surface sample collection and analysis process. The Monroe School District provided PBS with drawings that identified specific locations to be sampled. See attached sample location diagrams.

PBS collected surface samples in twelve (12) locations within the study area. The 2018 annual PCB surface sampling was performed using the wipe sampling method in 40 CFR Part 761. This method uses a gauze pad wetted with hexane and placed in a glass jar. The sample media was provided by ALS Laboratories. The hexane wetted gauze pad is wiped over a 100 cm² area using a disposable template as a guide and then placed in a glass jar. PBS personnel wore disposable nitrile gloves to protect against cross-contamination between samples. A total of two (2) field blanks were collected during this activity. The wipe samples were collected to evaluate the effectiveness of the epoxy sealant. The

samples were labeled with unique identification numbers, packaged and delivered with chain-of-custody documentation to ALS Laboratories. The samples were analyzed by EPA Method SW 8082 for PCBs. See attached laboratory report.

The EPA regulatory threshold for PCBs in surface wipes is 10 micrograms (μg) per 100 cm^2 .

FINDINGS

The following is a summary of our laboratory findings for the surface sampling activity.

Laboratory results revealed all twelve (12) surface wipe samples collected during this annual monitoring event were below laboratory detection and therefore below the EPA threshold of 10 $\mu\text{g}/100 \text{ cm}^2$, see Table 1.

Table 1 – Wipe Sampling Results

Sample Number	Location	PCB Results ($\mu\text{g}/100 \text{ cm}^2$)
114-PCB-W	Admin building – Principals office - North window brick/metal transition	ND
115-PCB-W	Admin building – Staff room - West window brick/metal transition	ND
116-PCB-W	Admin building – Mail room - Window brick/metal transition	ND
117-PCB-W	North Pod – Room 17 - North window brick/metal transition	ND
118-PCB-W	North Pod – Room 20 – Southwest window brick/metal transition	ND
119-PCB-W	East Pod – Room 13 - North window brick/metal transition	ND
120-PCB-W	East Pod – Room 12 - North window brick/metal transition	ND
121-PCB-W	South Pod – Room 7 - East window brick/metal transition	ND
122-PCB-W	South Pod – Room 3 - West window brick/metal transition	ND
123-PCB-W	Gym building – Gathering place - Southwest window brick/metal transition	ND
124-PCB-W	Gym building – Girls Locker-room – Interior of North exterior door brick/metal transition	ND

125-PCB-W	Annex building – Room E - South window brick/metal transition	ND
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$\mu\text{g}/100\text{ cm}^2$ = micrograms/100 square centimeters

ND = Not detected above reporting limits

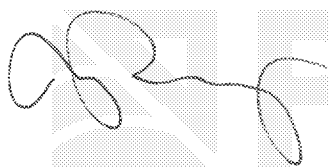
CONCLUSIONS

Based on laboratory results of the surface wipe samples, no detectable PCBs were found.

Please do not hesitate to contact me if you have any questions regarding this letter report or require additional information.

Sincerely,

PBS Engineering and Environmental, Inc.



Digitally signed by

Justin H. Day

Date: 2018.08.21

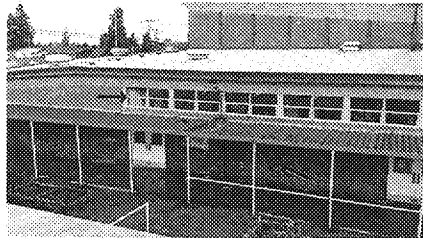
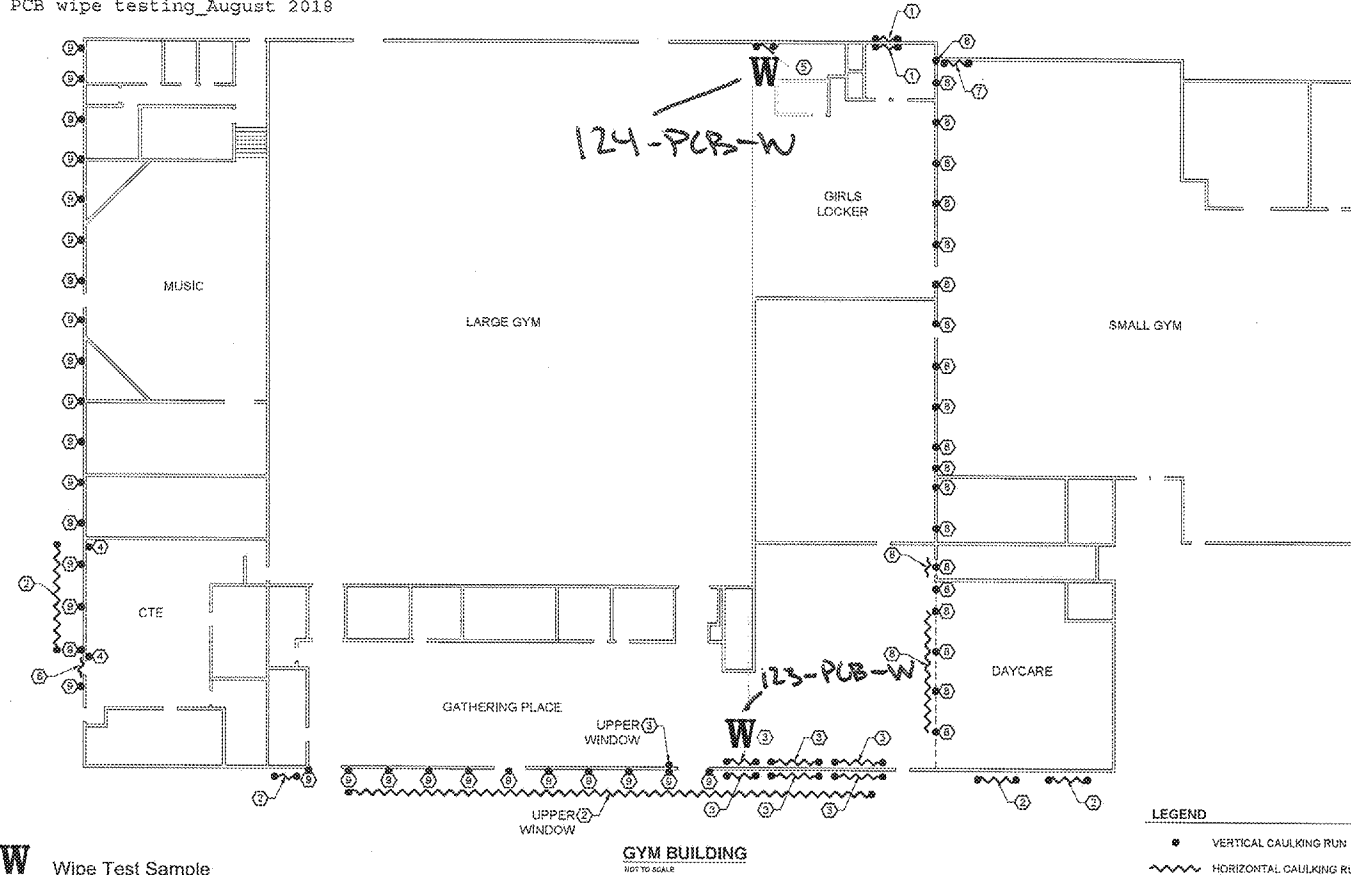
13:28:27 -07'00'

Justin Day

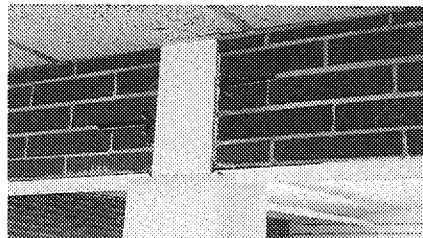
Industrial Hygiene Technician

Reviewed by: Gregg Middaugh
Senior Project Manager

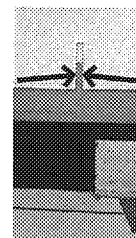
Attachments: Sample location Diagrams
Surface Wipe Sample Laboratory Report



②④ PHOTO DETAIL



③ PHOTO DETAIL



⑤ PHOTO DETAIL

GENERAL NOTES

- ALL ABATEMENT RELATED ACTIVITIES AT THIS PROJECT SITE SHALL COMPLY WITH DIVISION 01 AND 02 AND SPECIFICALLY SECTION 028400 PCB ACTIVITIES. CONTRACTOR TO VERIFY ALL ITEMS SHOWN. LOCATIONS AND QUANTITIES OF MATERIALS TO BE REMOVED, AND DIMENSIONS PRIOR TO REMOVAL. ANY DEVIATIONS FROM THE SPECIFICATION THAT ARE DISCOVERED BY THE CONTRACTOR SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE PRIOR TO REMOVAL. THE DRAWINGS ARE FOR DIAGRAMMATIC PURPOSES ONLY. GENERAL LOCATIONS OF PCB-CONTAINING MATERIALS ARE DEPICTED DIAGRAMMATICALLY ON THE DRAWINGS. THE REMAINING MATERIAL LOCATIONS ARE DESCRIBED TEXTUALLY ON THESE DRAWINGS. QUANTITIES OF HAZARDOUS MATERIALS LISTED ON THIS SHEET ARE CONSIDERED ACCURATE TO WITHIN $\pm 10\%$. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND PERMITS FOR THE REMOVAL AND DISPOSAL OF THE QUANTITIES OF HAZARDOUS MATERIALS PROVIDED PLUS AN ADDITIONAL 10%. THE CONTRACTOR WILL BE COMPENSATED FOR QUANTITIES WHICH ARE GREATER THAN 110% OF THE TOTAL AND THE OWNER WILL DEDUCT FROM THE CONTRACT SUM QUANTITIES THAT ARE 90% OR LESS OF THE TOTAL.
- REMOVAL OF HAZARDOUS MATERIALS MAY COMPROMISE THE SECURITY OF THE SITE. THE CONTRACTOR IS FULLY RESPONSIBLE FOR MAINTAINING SITE SECURITY AND PUBLIC SAFETY THROUGHOUT THE PROJECT. SEE SPECIFICATIONS REGARDING SECURITY AND PUBLIC SAFETY.
- ABATEMENT CONTRACTOR TO COORDINATE ALL ACTIVITIES WITH ALL OTHER ONSITE WORK INCLUDING, BUT NOT LIMITED TO: SCHEDULE, ACCESS, STAGING, ETC. ABATEMENT CONTRACTOR TO REPORT LOCATIONS AND QUANTITIES OF ALL HAZARDOUS MATERIALS TO BE REMOVED, TO THE OWNER'S REPRESENTATIVE PRIOR TO ABATEMENT/DEMOLITION.
- THE CONTRACTOR SHALL REMOVE ALL ACCESSIBLE CAULKING IN ALL AREAS WITHOUT PERFORMING DEMOLITION OF BUILDING COMPONENTS

KEY NOTES

- REMOVAL APPROX. 20 LF OF PCB-CONTAINING CAULKING LOCATED ON THE EXTERIOR AND INTERIOR METAL WINDOW FRAME ON THE GIRLS LOCKER ROOM NORTH PERIMETER WINDOW AS SHOWN.
- REMOVAL APPROX. 300 LF OF PCB-CONTAINING CAULKING ON THE EXTERIOR METAL WINDOW FRAMES ON ALL WINDOWS AT THE SOUTH AND WEST ELEVATIONS OF THE LARGE GYM BUILDING AS SHOWN. THIS INCLUDES CAULKING THAT EXISTS AROUND EACH WINDOW INFILL PANEL METAL FRAME TRANSITION ON THE WEST ELEVATION. THESE INFILL PANELS ARE CEMENT ASBESTOS BOARD.
- REMOVAL APPROX. 40 LF OF PCB-CONTAINING CAULKING LOCATED ON INTERIOR SIDE OF THE THREE LOWER WINDOWS AND THE UPPER WINDOW BANK EAST VERTICAL IN THE GATHERING PLACE AS SHOWN.
- REMOVAL APPROX. 10 LF OF PCB-CONTAINING CAULK ON INTERIOR WINDOW FRAME VERTICALS IN THE CTE ROOM AS SHOWN.
- REMOVAL APPROX. 18 LF OF PCB-CONTAINING CAULK ON INTERIOR SIDE OF NORTH EXTERIOR GIRLS LOCKER ENTRY DOOR AS SHOWN.
- REMOVAL APPROX. 18 LF OF PCB-CONTAINING CAULK ON EXTERIOR SIDE OF NORTH CTE ENTRY DOOR AS SHOWN.
- REMOVAL APPROX. 18 LF OF PCB-CONTAINING CAULK ON THE INTERIOR SIDE OF THE NORTHWEST PERIMETER ENTRY DOOR FRAME OF THE SMALL GYM AS SHOWN.
- REMOVAL APPROX. 500 LF OF PCB-CONTAINING CAULKING LOCATED ON ALL VERTICAL STRUCTURAL METAL COLUMN TRANSITIONS THROUGHOUT THE EAST ELEVATION OF THE LARGE GYM AS SHOWN. THIS INCLUDES THE REMOVAL OF ALL CAULKING ON THE INTERIOR DEMISING WALL METAL BEAMS (VERTICAL AND HORIZONTAL) BETWEEN THE DAYCARE AND THE GATHERING PLACE/CAFETERIA AS SHOWN. THE CAULKING IS HEAVILY PAINTED THROUGHOUT THE WORK AREA.
- REMOVAL APPROX. 750 LF OF PCB-CONTAINING CAULKING LOCATED ON ALL EXTERIOR VERTICAL STRUCTURAL METAL COLUMN TRANSITIONS THROUGHOUT THE LOWER WEST AND SOUTH ELEVATIONS OF THE LARGE GYM BUILDING AS SHOWN.



NOT TO SCALE



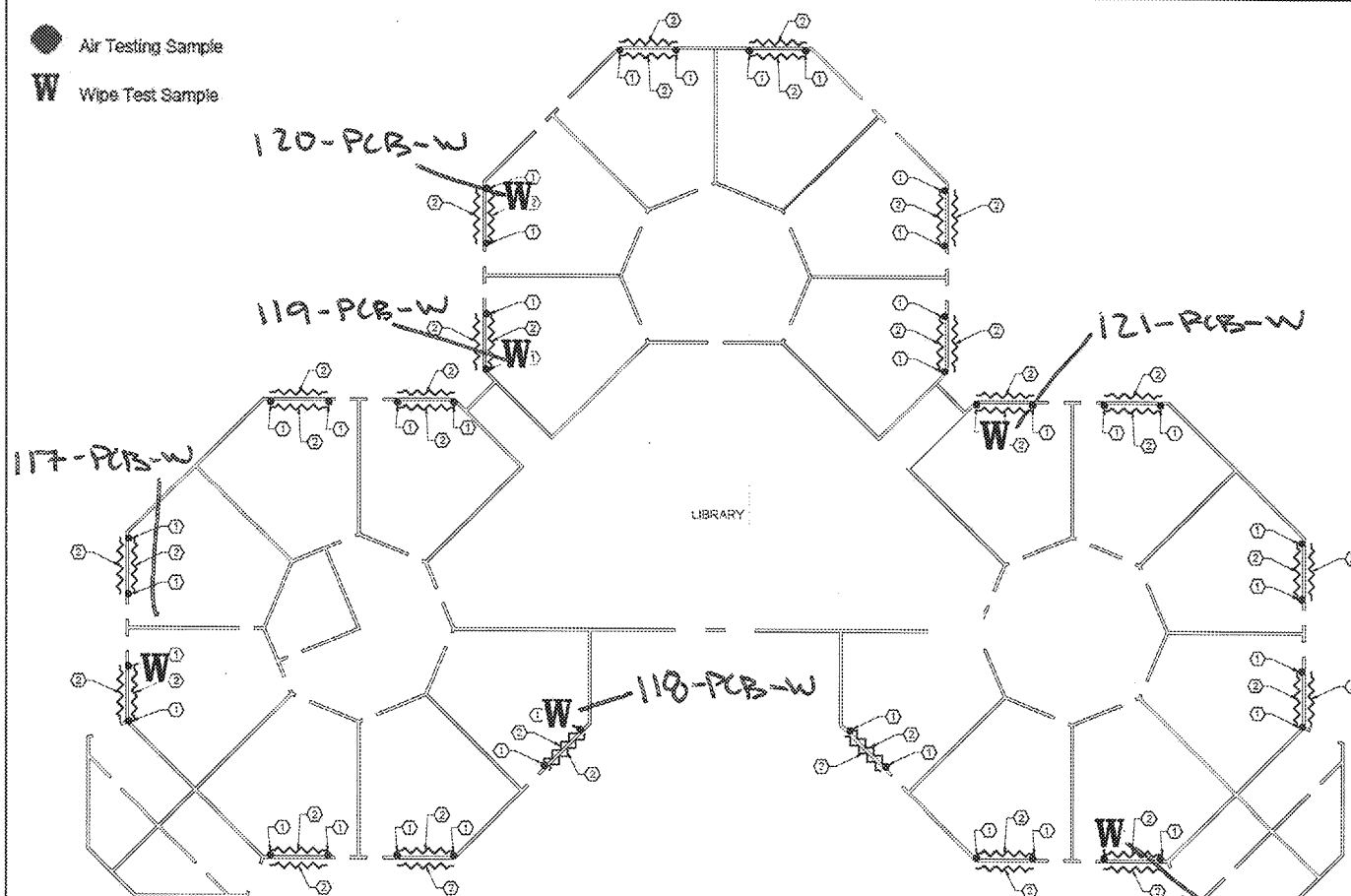
GYM BUILDING
CAULKING ABATEMENT PLAN
SKY VALLEY EDUCATIONAL CENTER

SKY VALLEY
EDUCATIONAL CENTER
351 SHORT COLUMBIA STREET
MONROE, WASHINGTON

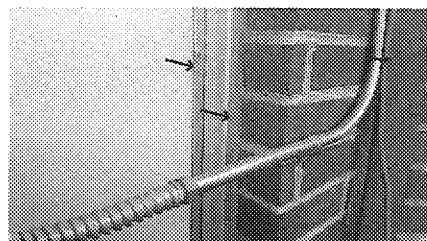
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DRAWN	J-41
CHECKED	GM
DATE	JUNE 2016
DWG NO.	HM1
SHEET NO.	1 OF 5

● Air Testing Sample

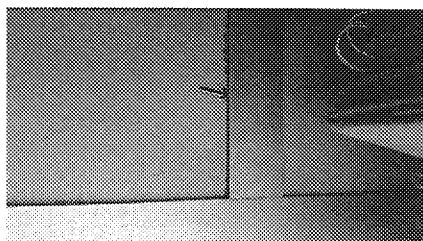
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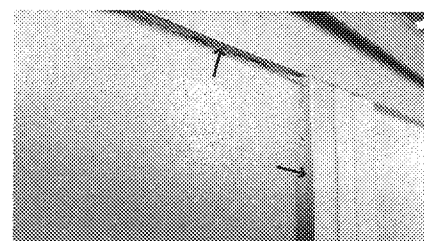
POD / LIBRARY BUILDING
NOT TO SCALE



① PHOTO DETAIL



② PHOTO DETAIL



③ PHOTO DETAIL

GENERAL NOTES

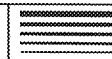
1. ALL ABATEMENT RELATED ACTIVITIES AT THIS PROJECT SITE SHALL COMPLY WITH DIVISION 01 AND 02 AND SPECIFICALLY SECTION 028400 PCB ACTIVITIES. CONTRACTOR TO VERIFY ALL ITEMS SHOWN, LOCATIONS AND QUANTITIES OF MATERIALS TO BE REMOVED, AND DIMENSIONS PRIOR TO REMOVAL. ANY DEVIATIONS FROM THE SPECIFICATION THAT ARE DISCOVERED BY THE CONTRACTOR SHALL BE REPORTED TO THE OWNERS REPRESENTATIVE PRIOR TO REMOVAL. THE DRAWINGS ARE FOR DIAGNOSTIC PURPOSES ONLY. GENERAL LOCATIONS OF PCB-CONTAINING MATERIALS ARE DEPICTED DIAGRAMMATICALLY ON THE DRAWINGS. THE REMAINING MATERIAL LOCATIONS ARE DESCRIBED TEXTUALLY ON THESE DRAWINGS. QUANTITIES OF HAZARDOUS MATERIALS LISTED ON THIS SHEET ARE CONSIDERED ACCURATE TO WITHIN +/- 10%. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND PERMITS FOR THE REMOVAL AND DISPOSAL OF THE QUANTITIES OF HAZARDOUS MATERIALS PROVIDED PLUS AN ADDITIONAL 10%. THE CONTRACTOR WILL BE COMPENSATED FOR QUANTITIES WHICH ARE GREATER THAN 110% OF THE TOTAL AND THE OWNER WILL DEDUCT FROM THE CONTRACT SUM QUANTITIES THAT ARE 90% OR LESS OF THE TOTAL.
2. REMOVAL OF HAZARDOUS MATERIALS MAY COMPROMISE THE SECURITY OF THE SITE. THE CONTRACTOR IS FULLY RESPONSIBLE FOR MAINTAINING SITE SECURITY AND PUBLIC SAFETY THROUGHOUT THE PROJECT. SEE SPECIFICATIONS REGARDING SECURITY AND PUBLIC SAFETY.
3. ABATEMENT CONTRACTOR TO COORDINATE ALL ACTIVITIES WITH ALL OTHER ONSITE WORK INCLUDING, BUT NOT LIMITED TO, SCHEDULE, ACCESS, STAGING, ETC. ABATEMENT CONTRACTOR TO REPORT LOCATIONS AND QUANTITIES OF ALL HAZARDOUS MATERIALS TO BE REMOVED, TO THE OWNERS REPRESENTATIVE PRIOR TO ABATEMENT/DEMOLITION.
4. THE CONTRACTOR SHALL REMOVE ALL ACCESSIBLE CAULKING IN ALL AREAS WITHOUT PERFORMING DEMOLITION OF BUILDING COMPONENTS.

KEY NOTES

1. REMOVE APPROX. 500 LF OF PCB-CONTAINING CAULKING LOCATED ON INTERIOR PERIMETER METAL WINDOW FRAME TO BRICK TRANSITION VERTICALS IN EACH OF CLASSROOMS 1-20 AS SHOWN.
2. REMOVE APPROX. 1,400 LF OF PCB-CONTAINING CAULKING ON THE INTERIOR AND EXTERIOR SIDES OF THE CEMENT ASBESTOS BOARD (CAB) WINDOW INFIL PANELS. THE CAULKING FILLS THE GAP BETWEEN THE METAL WINDOW FRAME AND CAB TRANSITION IN EACH OF CLASSROOMS 1-20 AS SHOWN.

LEGEND

- VERTICAL CAULKING RUN
- ~ HORIZONTAL CAULKING RUN



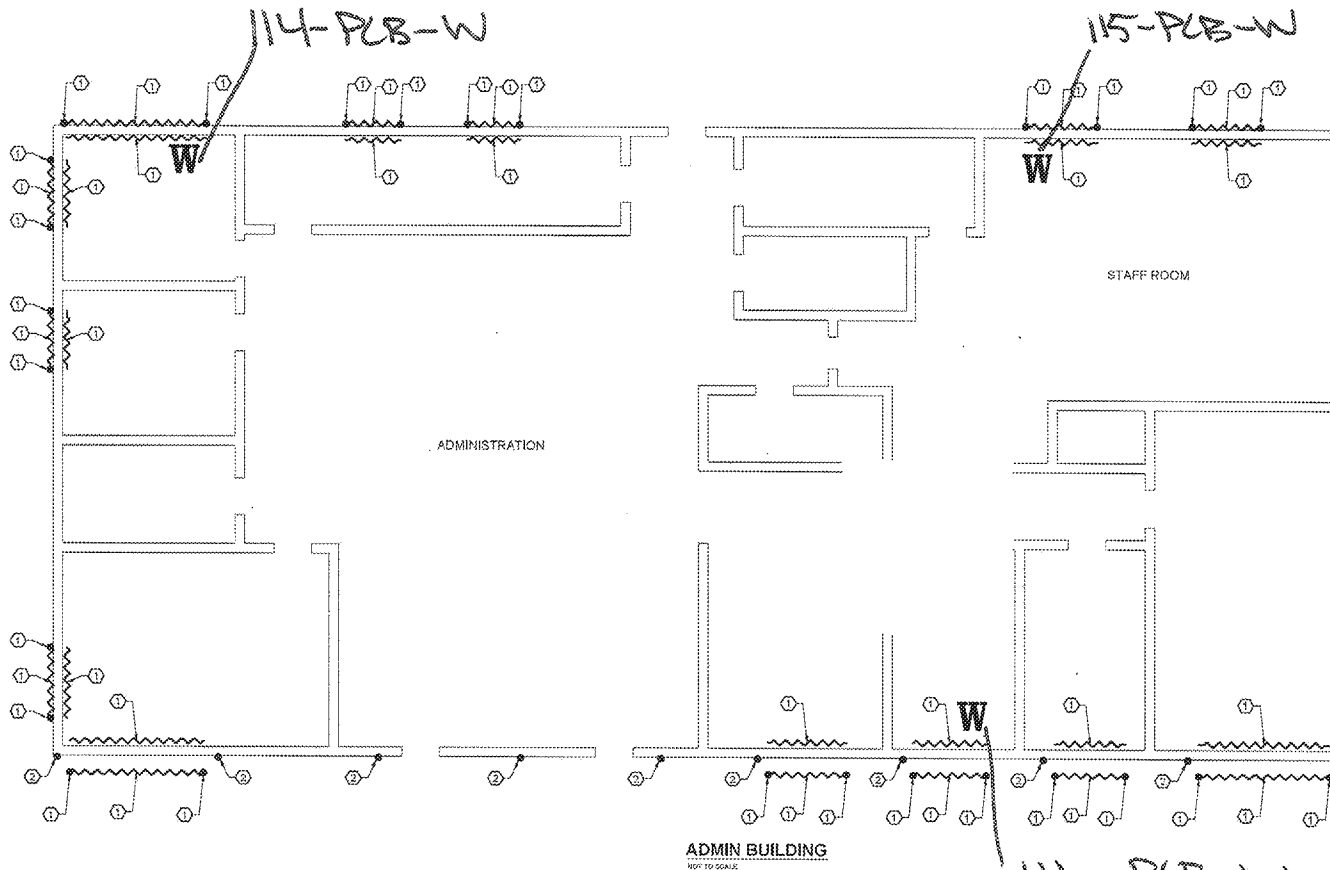
POD/LIBRARY BUILDING
CAULKING ABATEMENT PLAN
SKY VALLEY EDUCATIONAL CENTER

SKY VALLEY
EDUCATIONAL CENTER
351 SHORT COLUMBIA STREET
MONROE, WASHINGTON

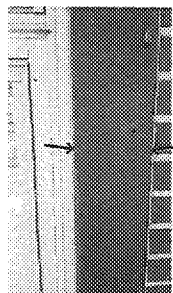
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DRAWN:	JHE
CHECKED:	GM
DATE:	JUNE 2016
DWG NO.	2 OF 5
HM2	



NOT TO SCALE



① PHOTO DETAIL



② PHOTO DETAIL

- Air Testing Sample
- W Wipe Test Sample

GENERAL NOTES

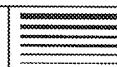
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- THE CONTRACTOR SHALL REMOVE ALL ACCESSIBLE CAULKING IN ALL AREAS WITHOUT PERFORMING DEMOLITION OF BUILDING COMPONENTS.

KEY NOTES

- REMOVE APPROX. 400 LF OF PCB-CONTAINING CAULKING LOCATED ON ALL INTERIOR METAL WINDOW SILL TRANSITIONS AND ALL EXTERIOR METAL WINDOW FRAME TRANSITIONS THROUGHOUT THE ADMINISTRATION BUILDING AS SHOWN.
- REMOVE APPROX. 175 LF OF PCB-CONTAINING CAULKING LOCATED ON ALL EXTERIOR VERTICAL STRUCTURAL METAL BEAM TRANSITIONS THROUGHOUT THE ADMINISTRATION BUILDING AS SHOWN.

LEGEND

- VERTICAL CAULKING RUN
- ~ HORIZONTAL CAULKING RUN



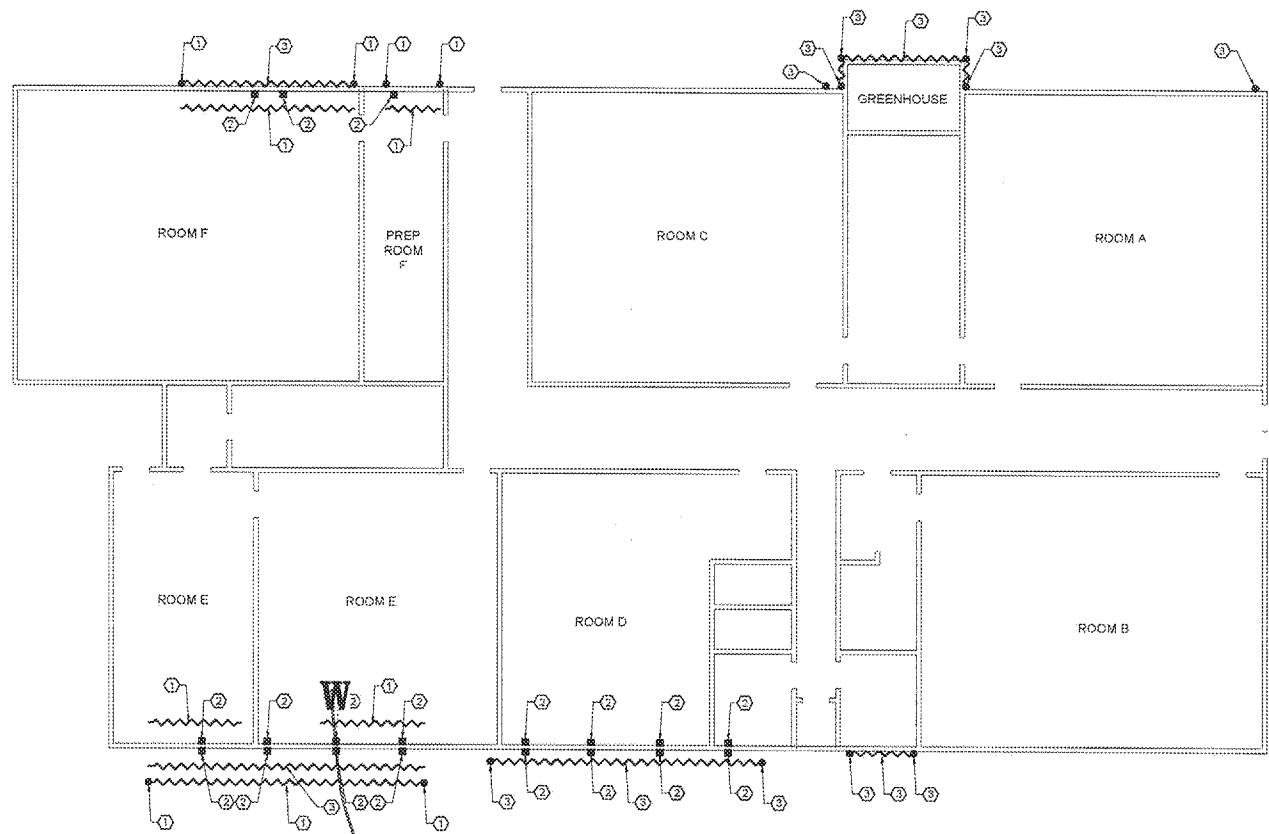
ADMIN BUILDING
CAULKING ABATEMENT PLAN
SKY VALLEY EDUCATIONAL CENTER

SKY VALLEY
EDUCATIONAL CENTER
351 SHORT COLUMBIA STREET
MONROE, WASHINGTON

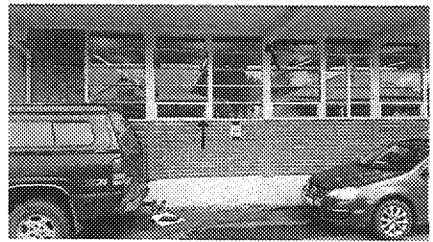
PROJECT: 41379.000
DRAWN: JHD
CHECKED: JAM
DATE: JUNE 2016
SHEET NO. 3 OF 5
HM3



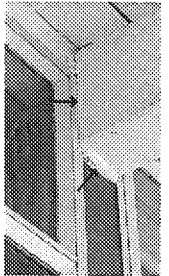
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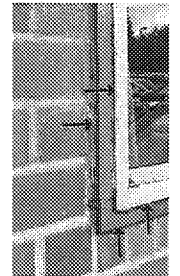
125-PCB-W ANNEX BUILDING
NOT TO SCALE



125 PHOTO DETAIL



2 PHOTO DETAIL



13 PHOTO DETAIL

● Air Testing Sample
W Wipe Test Sample

GENERAL NOTES

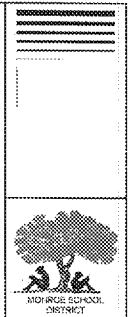
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4. THE CONTRACTOR SHALL REMOVE ALL ACCESSIBLE CAULKING IN ALL AREAS WITHOUT PERFORMING DEMOLITION OF BUILDING COMPONENTS.

KEY NOTES

1. REMOVE APPROX. 200 LF OF PCB-CONTAINING CAULKING LOCATED ON INTERIOR PERIMETER METAL WINDOW FRAME TRANSITIONS. THIS INCLUDES REMOVAL OF CAULKING WHICH EXISTS ON EXTERIOR METAL WINDOW FRAME TRANSITIONS ON THE NORTH AND SOUTH BUILDING ELEVATION WINDOWS AS SHOWN.
2. REMOVE APPROX. 80 LF OF PCB-CONTAINING CAULKING ON WOOD CEILING/OFFIT BEAMS AT PERIMETER WALL/CEILING TRANSITIONS IN ROOMS E, F AND PREP ROOM F AS SHOWN.
3. REMOVE APPROX. 300 LF OF PCB AND ASBESTOS-CONTAINING TAN CAULKING LOCATED ON VARIOUS VERTICAL AND HORIZONTAL METAL WINDOW FRAME TRANSITIONS ON THE NORTH AND SOUTH ELEVATIONS OF THE ANNEX BUILDING AS SHOWN.

LEGEND

- VERTICAL CAULKING RUN
- CAULKING ON BEAM
- ~ HORIZONTAL CAULKING RUN



ANNEX BUILDING
CAULKING ABATEMENT PLAN
SKY VALLEY EDUCATIONAL CENTER

SKY VALLEY EDUCATIONAL CENTER
351 SHORT COLUMBIA STREET
MONROE, WASHINGTON

PROJECT:	41273.202
DRAWN:	JHD
CHECKED:	CM
DATE:	JUNE 2012
DWG NO:	HM4
SHEET NO:	4 OF 5





10-Aug-2018

Gregg Middaugh
PBS
2517 Eastlake Ave. East, Suite 100
Seattle, WA 98102

Tel: (206) 255-4659

Fax:

Re: Sky VALLEY EC; 41373.000

Work Order: **1808122**

Dear Gregg,

ALS Environmental received 14 samples on 03-Aug-2018 09:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 20.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Shawn Smythe

Electronically approved by: Shawn Smythe

Shawn Smythe
Project Manager

ADDRESS 4336 Glendale Milford Rd Cincinnati, OH 45242- | PHONE (513) 733-6336 | FAX (513) 733-6347

ALS GROUP USA, CORP. Part of the ALS Group An ALS Limited Company



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RIGHT SOLUTIONS RIGHT PARTNER

ED_004522_00093402-00008

ALS Environmental

Date: 10-Aug-18

Client: PBS
Project: Sky VALLEY EC; 41373.000
Work Order: 1808122

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1808122-01	114-PCB-W	Wipe		8/2/2018	8/3/2018 09:30	<input type="checkbox"/>
1808122-02	115-PCB-W	Wipe		8/2/2018	8/3/2018 09:30	<input type="checkbox"/>
1808122-03	116-PCB-W	Wipe		8/2/2018	8/3/2018 09:30	<input type="checkbox"/>
1808122-04	117-PCB-W	Wipe		8/2/2018	8/3/2018 09:30	<input type="checkbox"/>
1808122-05	118-PCB-W	Wipe		8/2/2018	8/3/2018 09:30	<input type="checkbox"/>
1808122-06	119-PCB-W	Wipe		8/2/2018	8/3/2018 09:30	<input type="checkbox"/>
1808122-07	120-PCB-W	Wipe		8/2/2018	8/3/2018 09:30	<input type="checkbox"/>
1808122-08	121-PCB-W	Wipe		8/2/2018	8/3/2018 09:30	<input type="checkbox"/>
1808122-09	122-PCB-W	Wipe		8/2/2018	8/3/2018 09:30	<input type="checkbox"/>
1808122-10	123-PCB-W	Wipe		8/2/2018	8/3/2018 09:30	<input type="checkbox"/>
1808122-11	124-PCB-W	Wipe		8/2/2018	8/3/2018 09:30	<input type="checkbox"/>
1808122-12	125-PCB-W	Wipe		8/2/2018	8/3/2018 09:30	<input type="checkbox"/>
1808122-13	126-PCB-W	Wipe		8/2/2018	8/3/2018 09:30	<input type="checkbox"/>
1808122-14	127-PCB-W	Wipe		8/2/2018	8/3/2018 09:30	<input type="checkbox"/>

Client: PBS
Project: Sky VALLEY EC; 41373.000
Work Order: 1808122

Case Narrative

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Results relate only to the items tested and are not blank corrected unless indicated.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

ALS is an EPA recognized NLLAP laboratory for lead paint, soil, and dust wipe analyses under its AIHA-LAP accreditation.

ALS Environmental

Date: 10-Aug-18

Client: PBS
Project: Sky VALLEY EC; 41373.000
Sample ID: 114-PCB-W
Collection Date: 8/2/2018

Work Order: 1808122
Lab ID: 1808122-01
Matrix: WIPE

Analytical Results

Analyses

PCBS WIPE		Method: SW8082	Area	0 cm2	Analyst: KB
Date Analyzed: 8/10/2018		Reporting Limit			
	µg/sample	µg/sample		ug/100cm2	
Aroclor 1016	ND	1.0		NA	
Aroclor 1221	ND	1.0		NA	
Aroclor 1232	ND	1.0		NA	
Aroclor 1242	ND	1.0		NA	
Aroclor 1248	ND	1.0		NA	
Aroclor 1254	ND	1.0		NA	
Aroclor 1260	ND	1.0		NA	
Aroclor 1262	ND	1.0		NA	
Aroclor 1268	ND	1.0		NA	

Note:

ALS Environmental

Date: 10-Aug-18

Client: PBS
Project: Sky VALLEY EC; 41373.000
Sample ID: 115-PCB-W
Collection Date: 8/2/2018

Work Order: 1808122
Lab ID: 1808122-02
Matrix: WIPE

Analytical Results

Analyses

PCBS WIPE		Method: SW8082	Area	0 cm2	Analyst: KB
Date Analyzed: 8/10/2018		Reporting Limit			
	µg/sample	µg/sample		ug/100cm2	
Aroclor 1016	ND	1.0		NA	
Aroclor 1221	ND	1.0		NA	
Aroclor 1232	ND	1.0		NA	
Aroclor 1242	ND	1.0		NA	
Aroclor 1248	ND	1.0		NA	
Aroclor 1254	ND	1.0		NA	
Aroclor 1260	ND	1.0		NA	
Aroclor 1262	ND	1.0		NA	
Aroclor 1268	ND	1.0		NA	

Note:

ALS Environmental

Date: 10-Aug-18

Client: PBS
Project: Sky VALLEY EC; 41373.000
Sample ID: 116-PCB-W
Collection Date: 8/2/2018

Work Order: 1808122
Lab ID: 1808122-03
Matrix: WIPE

Analytical Results

Analyses

PCBS WIPE		Method: SW8082	Area	0 cm2	Analyst: KB
Date Analyzed: 8/10/2018		Reporting Limit			
	µg/sample	µg/sample		ug/100cm2	
Aroclor 1016	ND	1.0		NA	
Aroclor 1221	ND	1.0		NA	
Aroclor 1232	ND	1.0		NA	
Aroclor 1242	ND	1.0		NA	
Aroclor 1248	ND	1.0		NA	
Aroclor 1254	ND	1.0		NA	
Aroclor 1260	ND	1.0		NA	
Aroclor 1262	ND	1.0		NA	
Aroclor 1268	ND	1.0		NA	

Note:

ALS Environmental

Date: 10-Aug-18

Client: PBS
Project: Sky VALLEY EC; 41373.000
Sample ID: 117-PCB-W
Collection Date: 8/2/2018

Work Order: 1808122
Lab ID: 1808122-04
Matrix: WIPE

Analytical Results

Analyses

PCBS WIPE		Method: SW8082	Area	0 cm2	Analyst: KB
Date Analyzed: 8/10/2018		Reporting Limit			
	µg/sample	µg/sample		ug/100cm2	
Aroclor 1016	ND	1.0		NA	
Aroclor 1221	ND	1.0		NA	
Aroclor 1232	ND	1.0		NA	
Aroclor 1242	ND	1.0		NA	
Aroclor 1248	ND	1.0		NA	
Aroclor 1254	ND	1.0		NA	
Aroclor 1260	ND	1.0		NA	
Aroclor 1262	ND	1.0		NA	
Aroclor 1268	ND	1.0		NA	

Note:

ALS Environmental

Date: 10-Aug-18

Client: PBS
Project: Sky VALLEY EC; 41373.000
Sample ID: 118-PCB-W
Collection Date: 8/2/2018

Work Order: 1808122
Lab ID: 1808122-05
Matrix: WIPE

Analytical Results

Analyses

PCBS WIPE		Method: SW8082	Area	0 cm2	Analyst: KB
Date Analyzed: 8/10/2018		Reporting Limit			
	µg/sample	µg/sample		ug/100cm2	
Aroclor 1016	ND	1.0		NA	
Aroclor 1221	ND	1.0		NA	
Aroclor 1232	ND	1.0		NA	
Aroclor 1242	ND	1.0		NA	
Aroclor 1248	ND	1.0		NA	
Aroclor 1254	ND	1.0		NA	
Aroclor 1260	ND	1.0		NA	
Aroclor 1262	ND	1.0		NA	
Aroclor 1268	ND	1.0		NA	

Note:

ALS Environmental

Date: 10-Aug-18

Client: PBS
Project: Sky VALLEY EC; 41373.000
Sample ID: 119-PCB-W
Collection Date: 8/2/2018

Work Order: 1808122
Lab ID: 1808122-06
Matrix: WIPE

Analytical Results

Analyses

PCBS WIPE		Method: SW8082	Area	0 cm2	Analyst: KB
Date Analyzed: 8/10/2018		Reporting Limit			
	µg/sample	µg/sample		ug/100cm2	
Aroclor 1016	ND	1.0		NA	
Aroclor 1221	ND	1.0		NA	
Aroclor 1232	ND	1.0		NA	
Aroclor 1242	ND	1.0		NA	
Aroclor 1248	ND	1.0		NA	
Aroclor 1254	ND	1.0		NA	
Aroclor 1260	ND	1.0		NA	
Aroclor 1262	ND	1.0		NA	
Aroclor 1268	ND	1.0		NA	

Note:

ALS Environmental

Date: 10-Aug-18

Client: PBS
Project: Sky VALLEY EC; 41373.000
Sample ID: 120-PCB-W
Collection Date: 8/2/2018

Work Order: 1808122
Lab ID: 1808122-07
Matrix: WIPE

Analytical Results

Analyses

PCBS WIPE		Method: SW8082	Area	0 cm2	Analyst: KB
Date Analyzed: 8/10/2018		Reporting Limit			
	µg/sample	µg/sample		ug/100cm2	
Aroclor 1016	ND	1.0		NA	
Aroclor 1221	ND	1.0		NA	
Aroclor 1232	ND	1.0		NA	
Aroclor 1242	ND	1.0		NA	
Aroclor 1248	ND	1.0		NA	
Aroclor 1254	ND	1.0		NA	
Aroclor 1260	ND	1.0		NA	
Aroclor 1262	ND	1.0		NA	
Aroclor 1268	ND	1.0		NA	

Note:

ALS Environmental

Date: 10-Aug-18

Client: PBS
Project: Sky VALLEY EC; 41373.000
Sample ID: 121-PCB-W
Collection Date: 8/2/2018

Work Order: 1808122
Lab ID: 1808122-08
Matrix: WIPE

Analytical Results

Analyses

PCBS WIPE		Method: SW8082	Area	0 cm2	Analyst: KB
Date Analyzed: 8/10/2018		Reporting Limit			
	µg/sample	µg/sample	ug/100cm2		
Aroclor 1016	ND	1.0	NA		
Aroclor 1221	ND	1.0	NA		
Aroclor 1232	ND	1.0	NA		
Aroclor 1242	ND	1.0	NA		
Aroclor 1248	ND	1.0	NA		
Aroclor 1254	ND	1.0	NA		
Aroclor 1260	ND	1.0	NA		
Aroclor 1262	ND	1.0	NA		
Aroclor 1268	ND	1.0	NA		

Note:

ALS Environmental

Date: 10-Aug-18

Client: PBS
Project: Sky VALLEY EC; 41373.000
Sample ID: 122-PCB-W
Collection Date: 8/2/2018

Work Order: 1808122
Lab ID: 1808122-09
Matrix: WIPE

Analytical Results

Analyses

PCBS WIPE		Method: SW8082	Area	0 cm2	Analyst: KB
Date Analyzed: 8/10/2018		Reporting Limit			
	µg/sample	µg/sample	ug/100cm2		
Aroclor 1016	ND	1.0	NA		
Aroclor 1221	ND	1.0	NA		
Aroclor 1232	ND	1.0	NA		
Aroclor 1242	ND	1.0	NA		
Aroclor 1248	ND	1.0	NA		
Aroclor 1254	ND	1.0	NA		
Aroclor 1260	ND	1.0	NA		
Aroclor 1262	ND	1.0	NA		
Aroclor 1268	ND	1.0	NA		

Note:

ALS Environmental

Date: 10-Aug-18

Client: PBS
Project: Sky VALLEY EC; 41373.000
Sample ID: 123-PCB-W
Collection Date: 8/2/2018

Work Order: 1808122
Lab ID: 1808122-10
Matrix: WIPE

Analytical Results

Analyses

PCBS WIPE		Method: SW8082	Area	0 cm2	Analyst: KB
Date Analyzed: 8/10/2018		Reporting Limit			
	µg/sample	µg/sample	ug/100cm2		
Aroclor 1016	ND	1.0	NA		
Aroclor 1221	ND	1.0	NA		
Aroclor 1232	ND	1.0	NA		
Aroclor 1242	ND	1.0	NA		
Aroclor 1248	ND	1.0	NA		
Aroclor 1254	ND	1.0	NA		
Aroclor 1260	ND	1.0	NA		
Aroclor 1262	ND	1.0	NA		
Aroclor 1268	ND	1.0	NA		

Note:

ALS Environmental

Date: 10-Aug-18

Client: PBS
Project: Sky VALLEY EC; 41373.000
Sample ID: 124-PCB-W
Collection Date: 8/2/2018

Work Order: 1808122
Lab ID: 1808122-11
Matrix: WIPE

Analytical Results

Analyses

PCBS WIPE		Method: SW8082	Area	0 cm2	Analyst: KB
Date Analyzed: 8/10/2018		Reporting Limit			
	µg/sample	µg/sample		ug/100cm2	
Aroclor 1016	ND	1.0		NA	
Aroclor 1221	ND	1.0		NA	
Aroclor 1232	ND	1.0		NA	
Aroclor 1242	ND	1.0		NA	
Aroclor 1248	ND	1.0		NA	
Aroclor 1254	ND	1.0		NA	
Aroclor 1260	ND	1.0		NA	
Aroclor 1262	ND	1.0		NA	
Aroclor 1268	ND	1.0		NA	

Note:

ALS Environmental

Date: 10-Aug-18

Client: PBS
Project: Sky VALLEY EC; 41373.000
Sample ID: 125-PCB-W
Collection Date: 8/2/2018

Work Order: 1808122
Lab ID: 1808122-12
Matrix: WIPE

Analytical Results

Analyses

PCBS WIPE		Method: SW8082	Area	0 cm2	Analyst: KB
Date Analyzed: 8/10/2018		Reporting Limit			
	µg/sample	µg/sample		ug/100cm2	
Aroclor 1016	ND	1.0		NA	
Aroclor 1221	ND	1.0		NA	
Aroclor 1232	ND	1.0		NA	
Aroclor 1242	ND	1.0		NA	
Aroclor 1248	ND	1.0		NA	
Aroclor 1254	ND	1.0		NA	
Aroclor 1260	ND	1.0		NA	
Aroclor 1262	ND	1.0		NA	
Aroclor 1268	ND	1.0		NA	

Note:

ALS Environmental

Date: 10-Aug-18

Client: PBS
Project: Sky VALLEY EC; 41373.000
Sample ID: 126-PCB-W
Collection Date: 8/2/2018

Work Order: 1808122
Lab ID: 1808122-13
Matrix: WIPE

Analytical Results

Analyses

PCBS WIPE		Method: SW8082	Area	0 cm2	Analyst: KB
Date Analyzed: 8/10/2018		Reporting Limit			
	µg/sample	µg/sample	ug/100cm2		
Aroclor 1016	ND	1.0	NA		
Aroclor 1221	ND	1.0	NA		
Aroclor 1232	ND	1.0	NA		
Aroclor 1242	ND	1.0	NA		
Aroclor 1248	ND	1.0	NA		
Aroclor 1254	ND	1.0	NA		
Aroclor 1260	ND	1.0	NA		
Aroclor 1262	ND	1.0	NA		
Aroclor 1268	ND	1.0	NA		

Note:

ALS Environmental

Date: 10-Aug-18

Client: PBS
Project: Sky VALLEY EC; 41373.000
Sample ID: 127-PCB-W
Collection Date: 8/2/2018

Work Order: 1808122
Lab ID: 1808122-14
Matrix: WIPE

Analytical Results

Analyses

PCBS WIPE		Method: SW8082	Area	0 cm2	Analyst: KB
Date Analyzed: 8/10/2018		Reporting Limit			
	µg/sample	µg/sample	ug/100cm2		
Aroclor 1016	ND	1.0	NA		
Aroclor 1221	ND	1.0	NA		
Aroclor 1232	ND	1.0	NA		
Aroclor 1242	ND	1.0	NA		
Aroclor 1248	ND	1.0	NA		
Aroclor 1254	ND	1.0	NA		
Aroclor 1260	ND	1.0	NA		
Aroclor 1262	ND	1.0	NA		
Aroclor 1268	ND	1.0	NA		

Note:

ALS Environmental

Date: 10-Aug-18

Client: PBS
Work Order: 1808122
Project: Sky VALLEY EC; 41373.000

QC BATCH REPORT

Batch ID: **52476** Instrument ID **GC3** Method: **SW8082**

MBLK	Sample ID	MBLK-52476-52476			Units: $\mu\text{g/sample}$			Analysis Date: 8/10/2018		
Client ID:		Run ID: GC3_180810A			SeqNo: 1806983		Prep Date: 8/8/2018		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	1.0								
Aroclor 1221	ND	1.0								
Aroclor 1232	ND	1.0								
Aroclor 1242	ND	1.0								
Aroclor 1248	ND	1.0								
Aroclor 1254	ND	1.0								
Aroclor 1260	ND	1.0								
Aroclor 1262	ND	1.0								
Aroclor 1268	ND	1.0								
Surr: Decachlorobiphenyl	0.46	0	0.5	0	92	14.6-145	0			
Surr: Tetrachloro-m-xylene	0.269	0	0.5	0	53.8	24.4-141	0			

LCS	Sample ID				LCS-52476-52476		Units: $\mu\text{g/sample}$		Analysis Date: 8/10/2018		
Client ID:			Run ID: GC3_180810A			SeqNo: 1806984		Prep Date: 8/8/2018		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Aroclor 1260	7.017	1.0	10	0	70.2	38.1-135	0				
Surr: Decachlorobiphenyl	0.434	0	0.5	0	86.8	14.6-145	0				
Surr: Tetrachloro-m-xylene	0.244	0	0.5	0	48.8	19.7-105	0				

LCSD	Sample ID	LCSD-52476-52476				Units: $\mu\text{g/sample}$	Analysis Date: 8/10/2018			
Client ID:	Run ID: GC3_180810A			SeqNo: 1806999		Prep Date: 8/8/2018		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	8.974	1.0	10	0	89.7	38.1-135	0			
Surr: Decachlorobiphenyl	0.432	0	0.5	0	86.4	14.6-145	0			
Surr: Tetrachloro-m-xylene	0.243	0	0.5	0	48.6	24.4-141	0			

The following samples were analyzed in this batch:

1808122-01A	1808122-02A	1808122-03A
1808122-04A	1808122-05A	1808122-06A
1808122-07A	1808122-08A	1808122-09A
1808122-10A	1808122-11A	1808122-12A
1808122-13A	1808122-14A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 10-Aug-18

Client: PBS
Project: Sky VALLEY EC; 41373.000
WorkOrder: 1808122

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
µg/sample	

Sample Receipt Checklist

Client Name: **PBS-SEATTLE**

Date/Time Received: **03-Aug-18 09:30**

Work Order: **1808122**

Received by: **SNH**

Checklist completed by **Stephanie Harrington**

03-Aug-18

Reviewed by: **Shawn Smyth**

10-Aug-18

eSignature

Date

eSignature

Date

Matrices:

Carrier name:

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Container/Temp Blank temperature in compliance? Yes ☒ No ☐

Temperature(s)/Thermometer(s):

Cooler(s)/Kit(s):

Water - VOA vials have zero headspace? Yes ☐ No ☐ No VOA vials submitted ☒

Water - pH acceptable upon receipt? Yes ☐ No ☐ N/A ☒

pH adjusted? Yes ☐ No ☐ N/A ☒

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



ANALYTICAL REQUEST FORM

☒ REGULAR Status

1808122

☐ RUSH Status Required - ADDITIONAL CHARGE

RESULTS REQUIRED BY _____

DATE

CONTACT ALS LABORATORY GROUP PRIOR TO SENDING SAMPLES

Date 8/2/18 Purchase Order No. _____

Billing Address (if different)

Company Name PBS Engineering & EnvironmentalSamusAddress 2517 Eastlake Ave East Suite 100Seattle WA 98102

City State Zip

Person to Contact Gregg M. Daugh

Quote No. _____

Email Address gregg.m.daugh@pbsusa.comSampling Site Sky valley ECTelephone (206) 255-4659Date/Time of Collection 4/13/13-000

Fax Telephone () _____

PL = 149/100 cm²

Laboratory Use Only	Client Sample Number	Media Type	Sample Volume (Liters)	ANALYSES REQUESTED - Use Method Number if Known
01	114-PCB-W	WIDE	—	SW 8082 Admin Principals office NW window
02	115-PCB-W			Admin staff room W. window
03	116-PCB-W			Admin Mail room window
04	117-PCB-W			N pod - Rm 17
05	118-PCB-W			N pod - Rm 20
06	119-PCB-W			E pod - Rm 13
07	120-PCB-W			E pod - Rm 12
08	121-PCB-W			S. pod - Rm 7
09	122-PCB-W			S. pod - Rm 3
10	123-PCB-W			Gym bld - gathering place window
11	124-PCB-W			Gym bld - girls locker room door to ext
12	125-PCB-W			Annex - Room E
13	126-PCB-W			Blank 1
14	127-PCB-W	WIDE	—	SW 8082 Blank 2

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

CHAIN OF CUSTODY

Relinquished by: (Signature)	Date / Time 8/2/18 1345	Received by: (Signature)	Date / Time 8/2/18 0930
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time

ALS ENVIRONMENTAL 4388 Glendale Milford Road / Cincinnati, OH 452

DELIVERY METHOD:
STD / PRTY MAIL UPS
CLIENT DROP BOX
FEDEX ALS COURIER
OTHERCOOLING METHOD: NONE
COOLER WET RT ICE PACK
CUSTODY SEALS: NONE
COOLER PACKAGE SAMPLES
COOLER TEMP: °C